

Appl. No. 09/811,360  
Amendment dated October 6, 2005  
Reply to Office Action mailed May 12, 2005

Attorney Docket No. 355004-991501

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Previously presented) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head fixation configured for fixation to a flat cut proximal humeral surface, wherein the humeral head fixation includes a humeral head including a base surface configured for cement or ingrowth fixation, or both, and a rotationally-stabilizing, non-intramedullary base extension protruding therefrom including multiple fins configured for impaction into a cancellous region of the cut humeral surface, wherein the base surface of the humeral head is configured to contact or substantially mate with the cut humeral surface when coupled therewith and the non-intramedullary base extension is impacted into the cancellous region, and

wherein the multiple fins are uniformly planar along their entire extents and directly intersect at a center of the base surface, said center having a diameter that is approximately equal to a thickness of each of said fins, such that each said multiple planar fin protrudes radially along a plane from the center of the base surface where it intersects with each of the other fins.

Claim 2 (Cancelled)

Claim 3 (Cancelled)

Claim 4 (Previously presented): The apparatus of Claim 1, wherein said multiple intersecting fins form a cruciform shape.

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